May 10, 2018

5th GRADE
HOMEWORK

MS. ERNAMARIE AND MS. MARY ANN

DUE ON MAY 17th, 2018

NOTE : For Language Homework-
Worksheets will be given on
Thursday, May 10th.

Name _____ Date _____

5/7
5/17

Multiplying Decimals

Use mental math to multiply a decimal by 10, 100, or 1,000.

To multiply by 10, move the decimal point **one** place to the right.	To multiply by 100, move the decimal point **two** places to the right.	To multiply by 1,000, move the decimal point **three** places to the right.
0.4	**0.40**	**0.400**
10 x 0.4 = 4	100 x 0.4 = 40	1,000 x 0.4 = 400

Find each product. Use mental math.

1.	10 x 0.06 =	100 x 0.06 =	1,000 x 0.06 =	10 x 0.6 =
2.	10 x 4.3 =	100 x 4.3 =	1,000 x 4.3 =	0.43 x 100 =
3.	0.653 x 1,000 =	1.09 x 10 =	21.3 x 10 =	10 x 0.007 =
4.	1,000 x 0.046 =	0.46 x 1,000 =	0.46 x 100 =	0.46 x 10 =
5.	1,000 x 3.9 =	0.0045 x 10 =	100 x 0.03 =	12.6 x 1,000 =
6.	1.234 x 100 =	0.11 x 1,000 =	0.11 x 10,000 =	0.11 x 100,000 =

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Dividing Decimals

Use mental math to divide by 10, 100, or 1,000.

To divide by 10, move the decimal point in the dividend **one** place to the left. The result is your quotient.

315 ÷ 10 = **31.5**

To divide by 100, move the decimal point in the dividend **two** places to the left. The result is your quotient.

315 ÷ 100 = **3.15**

To divide by 1,000, move the decimal point in the dividend **three** places to the left. The result is your quotient.

315 ÷ 1,000 = **.315**

Find each quotient. Use mental math.

1.	40.5 ÷ 100 =	2.5 ÷ 1,000 =	70.3 ÷ 100 =	0.03 ÷ 10 =
2.	983 ÷ 100 =	90.9 ÷ 100 =	4,518 ÷ 100 =	38,693 ÷ 100 =
3.	88.56 ÷ 10 =	0.009 ÷ 100 =	0.75 ÷ 1,000 =	0.057 ÷ 100 =
4.	7.03 ÷ 1,000 =	74.41 ÷ 10 =	2.301 ÷ 100 =	320.16 ÷ 1,000 =
5.	9.125 ÷ 10 =	6,392 ÷ 100 =	7,452 ÷ 1,000 =	25,125 ÷ 100 =
6.	478.5 ÷ 1,000 =	0.235 ÷ 10 =	45.42 ÷ 100 =	3.667 ÷ 10 =

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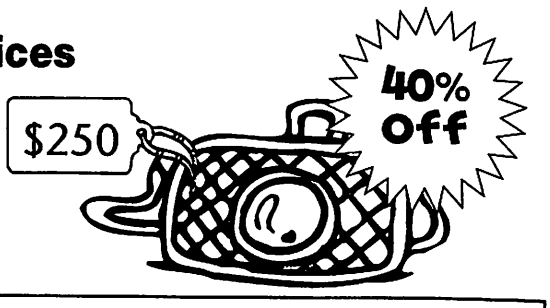
Percents: Finding Discounts and Sale Prices

A **discount** is an amount of decrease from a regular price. A discounted price is often called a **sale price**.



Find the discount amount and the sale price for the camera.

Discount = regular price x discount rate
= $250 x 40%
= $250 x 0.4
= **$100**

Sale Price = regular price – discount
= $250 – $100
= **$150**

Complete the table.

	Regular Price	Discount Rate	Discount	Sale Price
1.	$24	40%	$24 x 0.40 = **$9.60**	$24 – $9.60 = **$14.40**
2.	$25	30%	$25 x 0.30 = **$**_____	$25 – $_____ = **$**_____
3.	$80	15%		
4.	$220	60%		
5.	$90	55%		
6.	$120	45%		
7.	$1,250	25%		
8.	$198	50%		
9.	$65	15%		
10.	$4	40%		
11.	$80	10%		
12.	$20	35%		
13.	$6	20%		
14.	$99	33%		

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Using What We Know: Real-Life Problem Solving

Caring for Our Environment

Here are some garbage facts:

- In the United States, 6 out of every 10 aluminum cans are recycled. Each can has a mass or weight of about 1.5 grams.
- Each American throws away about 12.2 pounds of plastic packaging each year.
- Every year, each American throws out about 1,200 pounds of organic garbage like potato peels, watermelon rinds, grass clippings, etc. This type of garbage decomposes and can be used to fertilize the soil.
- Each American on average produces about 1,600 pounds of garbage each year.

Solve each problem. Use the above information as needed.

1. What percent of aluminum cans are recycled in the United States?

2. For every 100 cans that are recycled, how many grams of aluminum would there be?

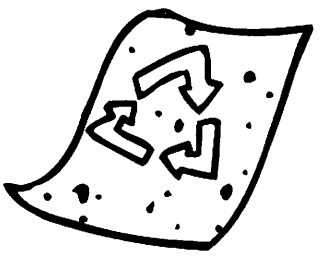
3. A plastic milk jug weighs approximately 0.05 pound. If each American throws away 12.2 pounds of plastic each year in the form of milk jugs, how many milk jugs is this per person?

4. What fraction of each American's yearly garbage is organic waste?

   a. Write this value as a fraction in lowest terms. _____

   b. What decimal is this equivalent to? _____

   c. What percent is this equivalent to? _____



5. Some states pay $0.05 per aluminum can that is recycled. If your family of four drank 24 cans of soda each week (that is one six-pack per person, per week), how much money could you earn in one year by recycling your family's aluminum cans? Hint: There are 52 weeks in one year.

6. Water is another resource that we need to use wisely and not waste. A bath uses about 20 gallons of water. A short shower uses about 15 gallons of water.

   a. What is the ratio of water used in showers to baths? Write this ratio as a fraction in lowest terms. _____

   b. Fill in the blanks with the correct numbers to complete the sentence.

   For every _____ baths you take, you can take _____ showers and use the same amount of water.

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The Human Body

Here are some facts about the human body:

- The human body is made of natural elements. Its chemical makeup is approximately $\frac{3}{5}$ oxygen, $\frac{1}{4}$ carbon, and $\frac{1}{10}$ hydrogen. The rest consists of small amounts of various other elements.
- Our bodies are made up of about 70% water by volume and by weight.
- Although there is a large variation in growth, an average-sized sixth grader weighs about 85 pounds. That's his or her **mass**.
- If we could fill an average-sized sixth grader up with liquid like a big container, he or she would hold about 40.4 quarts. That's his or her **volume**.

Solve each problem. Use the above information as needed.

1. What fraction of the body is made up of oxygen or hydrogen?

2. What fraction more of the body is made up of oxygen than carbon?

3. What fraction of the body is made up of oxygen, carbon, and hydrogen together?

4. What fraction of the body is made up of elements that are not oxygen, carbon, or hydrogen?

5. How many pounds of water mass make up the average-sized sixth grader?

6. How many quarts of water does an average sixth grader's body contain?

7. About $\frac{9}{20}$ of your body is made up of red and white blood cells. About 43% of your body is made up of only red blood cells. What fraction of your body is made up of only white blood cells?

8. Blood makes up about 8% of our body weight. How many pounds of a sixth grader's body mass is made up of blood?

9. The human body gets energy from food. This energy is measured in calories. If a person burns 4.8 calories per minute while walking, how many calories would that person burn during a 20-minute walk?